# IoT - Quiz 1

All questions are compulsory

1. Email *

2. 1. Where can we use IoT? 0 points

*Check all that apply.*

- [ ] In Agriculture
- [ ] In Healthcare
- [ ] In Industries
- [ ] Virtually everywhere

3. 2. What is the work of an IoT application Engineer?

*Mark only one oval.*

- ◯ Designing software applications
- ◯ Writing software for the IoT devices
- ◯ Converting the business use-cases into a prototype
- ◯ None of the above

4. 3. What the 4 key components of an IoT system?

5. 4. Tell 3 benefits of IoT

6. 5. I want to build a smart band to track my physical activities. Which statements are true:

*Check all that apply.*

- [ ] I will require a single board computer with a lot of processing power
- [ ] I will require a micro-controller based development board
- [ ] The development board need not have an onboard power supply
- [ ] We can use a body temperature sensor to monitor person's health

7. 6. The station mode in WiFi is used for

*Mark only one oval.*

- ◯ Connecting the a WiFi enabled device to a router or access point
- ◯ Creating a WiFi hotspot on a device
- ◯ Sniffing the packets on the IP network
- ◯ None of the above

8. 7. We can convert an Analog sensor into a Digital sensor by

*Mark only one oval.*

- ◯ Using a microcontroller and programming it.
- ◯ Using a comparator and setting a reference voltage.
- ◯ Connecting a resistor in series with the sensor
- ◯ All of the above

9. 8. Resolution of ADC is important for

*Mark only one oval.*

- ◯ Better accuracy of the sensor reading
- ◯ Capturing finer details from the sensor output
- ◯ Optimizing the power and resource consumption of microcontroller
- ◯ All of the above

10. 9. Which protocols are supported by the ESP8266 device?

*Check all that apply.*

- ☐ SPI
- ☐ UART
- ☐ Bluetooth
- ☐ CAN

11. 10. I want to build a industrial temperature monitoring device, I will need

*Check all that apply.*

- ☐ A single board computer with WiFi
- ☐ A micro-controller based device with WiFi onboard.
- ☐ An advanced temperature sensor with environmental factor compensation
- ☐ A cloud server to collect data and analyse
- ☐ An application to show the insights and triggers to the stakeholders
- ☐ All of the above

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